

Holt Physics

Problem 2E**FINAL VELOCITY AFTER ANY DISPLACEMENT****PROBLEM**

In 1970, a rocket-powered car called *Blue Flame* achieved a maximum speed of 1.00×10^3 km/h (278 m/s). Suppose the magnitude of the car's constant acceleration is 5.56 m/s^2 . If the car is initially at rest, what is the distance traveled during its acceleration?

SOLUTION**1. DEFINE**

Given:

$$v_i = 0 \text{ m/s}$$

$$v_f = 278 \text{ m/s}$$

$$a = 5.56 \text{ m/s}^2$$

Unknown:

$$\Delta x = ?$$

2. PLAN

Choose an equation(s) or situation: Use the equation for the final velocity after any displacement.

$$v_f^2 = v_i^2 + 2a\Delta x$$

Rearrange the equation(s) to isolate the unknown(s):

$$\Delta x = \frac{v_f^2 - v_i^2}{2a}$$

3. CALCULATE

Substitute the values into the equation(s) and solve:

$$\Delta x = \frac{\left(278 \frac{\text{m}}{\text{s}}\right)^2 - \left(0 \frac{\text{m}}{\text{s}}\right)^2}{(2)\left(5.56 \frac{\text{m}}{\text{s}^2}\right)} = \boxed{6.95 \times 10^3 \text{ m}}$$

4. EVALUATE

Using the appropriate kinematic equation, the time of travel for *Blue Flame* is found to be 50.0 s. From this value for time the distance traveled during the acceleration is confirmed to be almost 7 km. Once the car reaches its maximum speed, it travels about 16.7 km/min.

ADDITIONAL PRACTICE

1. In 1976, Kitty Hambleton of the United States drove a rocket-engine car to a maximum speed of 965 km/h. Suppose Kitty started at rest and underwent a constant acceleration with a magnitude of 4.0 m/s^2 . What distance would she have had to travel in order to reach the maximum speed?
2. With a cruising speed of 2.30×10^3 km/h, the French supersonic passenger jet Concorde is the fastest commercial airplane. Suppose the landing speed of the Concorde is 20.0 percent of the cruising speed. If the plane accelerates at -5.80 m/s^2 , how far does it travel between the time it lands and the time it comes to a complete stop?

Holt Physics Problem

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Problem Workbook Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-04 *Holt Physics*, 2001 Holt Physics Teaching Resources, 2005 **Holt Physics Workbook**, 2006 Physics Holt Rinehart & Winston, 2000-12

Northwest Science, 1985 **Holt Science and Technology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001-01-01 Part of the publisher's science program for middle school students **Recent Progress in Solving Some Farm Problems of Illinois** University of Illinois at Urbana-Champaign. Agricultural Experiment Station, 1913

Philosophical Magazine, 1929 **Year's Progress in Solving Some Farm Problems of Illinois** University of Illinois at Urbana-Champaign. Agricultural Experiment Station, 1906 *Holt Physics* Raymond A. Serway, 2006 **The Publishers Weekly**, 1908 Holt Science and Technology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2000-04

Mathematical Analysis of Physical Problems Philip Russell Wallace, 1984-01-01 This mathematical reference for theoretical physics employs common techniques and concepts to link classical and modern physics It provides the necessary mathematics to solve most of the problems Topics include the vibrating string linear vector spaces the potential equation problems of diffusion and attenuation probability and stochastic processes and much more 1972 edition Expert Problem Solving Kenneth Leithwood, Rosanne Steinbach, 1995-01-01 This book presents a series of related empirical studies about the thinking and problem solving processes of expert educational leaders It describes the nature of expert thinking and provides substantial explanations for the cognitive processes associated with expert thinking Differences in the thinking and problem solving of male and female novice and experienced elementary secondary district administrators are all explored In addition the book provides a glimpse of the school administrator's world from a problem solving perspective and clarifies the kinds of experiences that give rise to expert thinking *The Neutron and the Bomb: A Biography of Sir James Chadwick* Andrew Brown, 2019-08-15 James Chadwick 1891 1974 came from a humble background his father was a cotton spinner He was accepted in the physics department of Sir Ernest Rutherford at Manchester University in 1908 on a scholarship and soon started publishing new findings about radioactivity This led to a traveling scholarship to Berlin where he made the important discovery of the continuous spectrum of particles When the World War I broke out Chadwick was interned by the Germans as an enemy alien for the next four years but continued experiments in the prison camp On his return to England in broken health Rutherford invited Chadwick to join the Cavendish Laboratory in Cambridge where he became Rutherford's deputy and oversaw much groundbreaking physics research over the next 15 years Chadwick concentrated on finding evidence for the neutron an uncharged nuclear particle whose existence was first proposed by Rutherford in 1920 Having noticed anomalous results from the Curie laboratory in Paris in 1932 Chadwick used simple bench top apparatus to convince himself after weeks of intense observations that he had definite evidence for the existence of the neutron The Nobel Prize for physics followed in 1935 that year he moved to Liverpool University to head his own department At the outbreak of World War II the

feasibility of atomic bombs of unprecedented explosive power was already being discussed Chadwick drafted the British MAUD committee's historic reports in the summer of 1941 which concluded that atomic bombs were indeed feasible with sufficient industrial capacity In wartime Britain this was impossible but in 1943 Chadwick moved to the US as head of the British scientists working on the Manhattan Project He formed an unlikely alliance with its leader General Leslie Groves and became an adroit scientist diplomat Witnessing the first explosion of a plutonium fueled device at the Trinity Test shattered him Chadwick believed that dropping atomic bombs on Japanese cities was justified but the development of nuclear weapons as an unintended consequence of his discovery of the neutron caused him deep personal anguish Until this excellent book by Andrew Brown Chadwick has remained the most shadowy of the atomic scientists who for better or worse gave the human species mastery over nuclear energy Nigel Calder *New Scientist* Andrew Brown's biography beautifully reveals Chadwick's scientific diplomatic and personal achievements Roger H Stuewer *Physics Today* I can warmly recommend this book to all interested in the life of a remarkable scientist who played a crucial role in a formative period of the modern world Hermann Bondi *Times Higher Education Supplement* This is the biography of a physicist who made one of the most important discoveries in nuclear physics but retained to his old age the shyness of a young lad Andrew Brown takes us through Chadwick's life as an adventure I found it a very good read Hans Bethe *American Journal of Physics* The tale of so sterling a character even when told as well as in this book may be a little short on light moments but any reader interested in the evolution of physics from an academic passion to a leading role on the world stage will find it a fascinating story and a worthy tribute to a great scientist Brian Pippard *Nature* makes absorbing reading more than the life story of a remarkable man unfolds the tremendous transformation that science underwent in the 20th century Joseph Rotblat avidly researched and artfully written This biography blends elegantly direct scientific descriptions with often witty episodes and character summaries William Lanouette *Bulletin of the Atomic Scientists* *Unsolved Problems of the Milky Way* Leo Blitz, Peter Teuben, 2013-11-11 Although the Milky Way is the most studied and best understood galactic system there are many fundamental questions about our Galaxy that remain unanswered This book concentrates on those questions which have the widest applicability in all of astrophysics and for which answers are most likely to be forthcoming in the next few years Is the Milky Way a barred spiral and if so what are its properties Is the disk of the Milky Way axisymmetric and what does the answer tell us about its dynamical history Is there a black hole at the center of the Galaxy How far does the Galaxy extend How much dark matter is there in the Milky Way system And more **Address of ... Mayor ...** Worcester (Mass.), 1912

Problems and Examples in Differential Equations Piotr Biler, Tadeusz Nadzieja, 2020-08-11 This book presents original problems from graduate courses in pure and applied mathematics and even small research topics significant theorems and information on recent results It is helpful for specialists working in differential equations The United States Catalog, 1921

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